



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

Re: Attorney Docket No. Kim 6-8

In re application of: Helen H. Kim and Meng-Lin Mark Yu

Serial No.: 09/639,259  
Filed: 08/15/00  
Matter No.: 992.0320

Group Art Unit: 2634  
Examiner: Sam K. Ahn  
Phone No.: 703-305-0754

For: Signal Detection Based on Channel Estimation

**TRANSMITTAL OF NEW DRAWING(S) TO CORRECT  
INFORMALITIES WITHIN THREE-MONTH PERIOD OF  
RESPONSE SET IN NOTICE OF ALLOWABILITY (PTOL-37)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In response to the Notice of Allowance and Issue Fee Due mailed on 03/25/2005, the applicant herewith submits 3 new sheets of drawings to correct the informalities in the drawings as noted in the Notice of Draftsman's Patent Drawing Review (PTO Form 948).

Respectfully submitted,

Date: 6/20/05  
Customer No. 22186  
Mendelsohn & Associates, P.C.  
1515 Market Street, Suite 715  
Philadelphia, Pennsylvania 19102

Steve Mendelsohn  
Steve Mendelsohn  
Registration No. 35,951  
Attorney for Applicant  
(215) 557-6657

\* \* \* \* \*

Certification Under 37 CFR 1.8

Date of Deposit 6/20/05

I hereby certify that this paper and any accompanying papers or fees are being deposited with the U.S. Postal Service with sufficient postage as first class mail under 37 CFR 1.8 on the date indicated above and addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

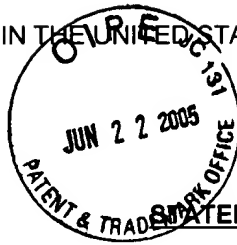
Gerry Marrero  
(Name of person mailing)

Gerry Marrero  
(Signature of person mailing)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Attorney Docket No. Kim 6-8



**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Agere Systems Inc.

Application No./Patent No.: 09/639,259 Filed/Issued Date: 08/15/2000

Entitled: "Signal Detection Based on Channel Estimation"

Agere Systems Inc. Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

States that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

In the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_, Frame \_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A Chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Inventor(s) To: Lucent Technologies, Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel 011176, Frame 0072, or for which a copy thereof is attached.
2. From: Lucent Technologies Inc. To: Agere Systems Guardian Corp.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_, Fame \_\_\_\_, or for which a copy thereof is attached.
3. From: Agere Systems Guardian Corp. To: Agere Systems Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_, Fame \_\_\_\_, or for which a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other document in the chain of title are attached.  
[Note: A separate copy (i.e., the original assignment document or a true copy of the original documents) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: 6/20/05  
Customer No. 46900  
Mendelsohn & Associates, P.C.  
1500 John F. Kennedy Blvd., Suite 405  
Philadelphia, Pennsylvania 19102

Respectfully submitted,

Steve Mendelsohn  
Steve Mendelsohn  
Registration No. 35,951  
Attorney for Assignee  
(215) 557-6657



**EXECUTION COPY**

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**PATENT ASSIGNMENT**

**by and between**

**LUCENT TECHNOLOGIES INC.**

**and**

**AGERE SYSTEMS GUARDIAN CORP.**

**Dated as of January 30, 2001**

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## **PATENT ASSIGNMENT**

**THIS PATENT ASSIGNMENT (this "Assignment"), effective as of January 30, 2001 (the "Effective Date"), is by and between Lucent Technologies Inc., a Delaware corporation, with offices at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, ("ASSIGNOR") and Agere Systems Guardian Corp., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("Agere Systems Guardian").**

## **RECITALS**

**A. WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its stockholders to separate ASSIGNOR's existing businesses into two independent businesses;**

**B. WHEREAS, ASSIGNOR presently owns or controls certain patents, patent applications, and invention submissions listed in the attached Appendices A and B (hereinafter "TRANSFERRED PATENTS") and;**

**C. WHEREAS, in furtherance of the foregoing separation, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in Agere Systems Guardian;**

**NOW, THEREFORE, in consideration of the premises and for other good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:**

**ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to Agere Systems Guardian, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS listed on Appendices A and B, and corresponding counterpart foreign patents and patent applications, with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver. Agere Systems Guardian recognizes that ASSIGNOR holds only bare legal title to the TRANSFERRED PATENTS listed in Appendix A (which lists the United States Patents and patent applications previously exclusively licensed to Lucent Technologies Microelectronics Guardian Corp.).**


**ASSIGNOR and ASSIGNEE recognize that the patents listed in Appendices A and B may inadvertently include patents that are owned by various subsidiaries of ASSIGNOR, including Agere, Inc., Ortel Corporation, Optimay Corporation, Herrmann Technology, Inc., and Enable Semiconductor, Inc. Ownership of such patents shall not be affected by this Patent**

Assignment, and ASSIGNEE agrees that any such patents shall be deemed deleted from Appendices A and B.


ASSIGNOR agrees that, upon request it will, at any time without charge to Agere Systems Guardian, but at Agere Systems Guardian's expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in Agere Systems Guardian, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in Agere Systems Guardian and its respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date.

**LUCENT TECHNOLOGIES INC.**

By:   
Daniel P. McCurdy  
President, Intellectual Property Business

**AGERE SYSTEMS GUARDIAN CORP.**

By:   
Fred M. Romano  
President

Execution Copy

ACKNOWLEDGMENTS

STATE OF NEW JERSEY )

: ss:

COUNTY OF SOMERSET )

I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and

b.) this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name TAMORA ANNE HANNA  
Notary Public Notary Public of New Jersey  
My Commission Expires ~~February 25, 2002~~ Registered in Hunterdon County  
[Notarial Seal] My Commission Expires March 25, 2002

STATE OF FLORIDA )

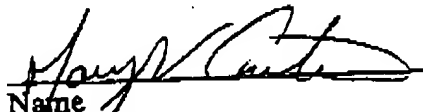
: ss:

COUNTY OF ORANGE )

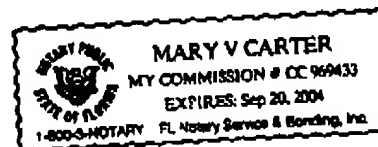
I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Guardian Corp. ; and

b.) this Patent Assignment was signed and made by Agere Systems Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name  
Notary Public  
My Commission Expires:  
[Notarial Seal]



**APPENDIX B (continued)**  
**Transferred Patents**

<b>Case Name</b>	<b>Filing Date</b>	<b>Issue Date</b>	<b>Patent No.</b>	<b>Serial No.</b>
Kaxiras 2-2	6/9/2000			09/591918
Kaxiras 7-17-2	10/25/2000		60/243173	
Ke 4	7/28/1997		08/901250	
Keamey 1-8	4/30/1997		08/846743	
Kelley 2-19-13	12/14/1999			09/460812
Kelley 6-30-19	12/13/1999			09/460160
Kelley 7-26-21	12/14/1999			09/460652
Kelley 9-7-31-22-25	5/31/2000			09/583505
Kempsey 2	7/22/1998		09/120396	
Kermani 11	1/5/1999			09/225642
Kermani 12	1/5/1999			09/225641
Kermani 13-1-1	1/5/1999			09/225654
Kermani 14	10/27/1999			09/427802
Kermani 16	1/25/1999			09/236178
Kermani 17	3/3/1999			09/262150
Kermani 2	5/13/1998		09/078037	
Kermani 23	3/8/1999			09/283075
Kermani 24	3/8/1999			09/283074
Kermani 3	5/13/1998		09/076735	
Kermani 31	10/18/1999			09/419522
Kermani 39	12/21/1999			09/468721
Kermani 40	12/9/1999			09/458130
Kermani 41	12/28/1999			09/473369
Kermani 42	12/2/1999			09/453025
Kermani 44	1/13/2000			09/482062
Kermani 4-6	5/12/1998		09/075948	
Kermani 8	2/12/1999	7/11/2000	6088254	09/249572
Kermani 9	12/18/1998			09/215805
Kern 8-1	9/14/1999			09/395620
Khoini-Poorfard 10-18	11/2/1999			09/431890
Khoini-Poorfard 4	10/14/1998			09/172376
Khoini-Poorfard 5-1	1/28/1999			09/238990
Khoini-Poorfard 6-1	4/15/1999			09/293510
Khoini-Poorfard 7-2-12	10/1/1999			09/411152
Khoini-Poorfard 8-1	5/3/2000			09/563874
Khoini-Poorfard 9-2-11	11/5/1999			09/434595
Khoury 13	5/13/1999	5/16/2000	6064614	09/311049
Kibar 1-12	8/21/1998		09/138177	
Kibar 2-13	8/28/1998		09/143170	
Kim 11-4	3/25/1998		09/048537	
✓ Kim 6-8	8/15/2000		09/639259	
Kim 8-13	6/2/1997		08/867351	
Kimmel 1	11/22/1999			09/444098
Kimura 2	11/18/1999			09/442976
Kimura 3	10/22/1999			09/425703
King 13-13	3/12/1998		09/042388	
King 14-19	7/31/1998	7/11/2000	6087683	
King 16-1	1/7/2000			60/174999
Kinget 3-2	9/17/1999			09/398371
Kizilyalli 16-26-42-3	1/20/1998		09/009605	
Kizilyalli 21-3	4/18/1998		09/061763	
Kizilyalli 23	8/13/1998		09/133388	
Kizilyalli 24-35-52	9/15/1998		09/153522	
Kizilyalli 25-38-12	11/17/1999			09/441676
Kizilyalli 27-39-13	6/3/1999			09/324946
Kizilyalli 29-40-59	12/11/1998			09/209787
Kizilyalli 30-41-60-40	12/11/1998			09/209788
Kizilyalli 31-14	3/2/1999			09/260947
Kizilyalli 33	8/31/1999			09/386592
Kizilyalli 35-35-16-79	4/28/1999			09/301397



# Delaware

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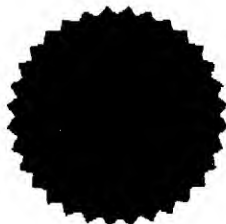
## *The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"AGERE SYSTEMS GUARDIAN CORP.", A DELAWARE CORPORATION,  
WITH AND INTO "AGERE SYSTEMS INC." UNDER THE NAME OF "AGERE SYSTEMS INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-NINTH DAY OF AUGUST, A.D. 2002, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF AUGUST, A.D. 2002.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

3268412 8100M

AUTHENTICATION: 1959517

020545223

DATE: 08-29-02

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 09:00 AM 08/29/2002  
020545223 - 3268412

**CERTIFICATE OF OWNERSHIP AND MERGER**

**OF**

**Agere Systems Guardian Corp.  
(a Delaware corporation)**

**INTO**

**Agere Systems Inc.  
(a Delaware corporation)**

**UNDER SECTION 253 OF THE GENERAL  
CORPORATION LAW OF THE STATE OF DELAWARE**

Agere Systems Inc., a corporation organized and existing under the laws of Delaware ("Corporation"), **DOES HEREBY CERTIFY:**

**FIRST:** The Corporation is the owner of all of the outstanding shares of common stock of Agere Systems Guardian Corp., which is also a business corporation of the State of Delaware.

**SECOND:** On August 22, 2002 the Subsidiary Governance Committee of the Board of Directors of the Corporation adopted the following resolution to merge Agere Systems Guardian Corp. into the Corporation:

**RESOLVED** that Agere Systems Guardian Corp., a Delaware corporation, shall be merged with and into Agere Systems Inc., a Delaware corporation, with Agere Systems Inc. being the surviving corporation, and Agere Systems Inc. shall thereupon assume all of the obligations of Agere Systems Guardian Corp."

**THIRD:** That the merger authorized hereby shall become effective as of 9:00 a.m. Eastern Standard Time on August 31, 2002.

Executed on August 22, 2002

**AGERE SYSTEMS INC.**

By Paul Bento  
Paul Bento, Vice President